

CLAIMS

1. A method of prioritizing a voice call request during a data communication session with a mobile communication device, comprising:

5 receiving a voice call request while a mobile communication device is engaged in a connected data communication service;

in response to receiving the voice call request:

causing a traffic channel of the connected data communication service to be torn down; and

10 causing a voice call to be established with the mobile communication device.

2. The method of claim 1, wherein the method is performed by the mobile communication device.

15 3. The method of claim 1, wherein the method is performed by the mobile communication device and the act of receiving the voice call request further comprises:

receiving the voice call request through a user interface of the mobile communication device.

20 4. The method of claim 1, wherein the method is performed by one or more servers in a wireless communication network within which the mobile communication device operates.

25 5. The method of claim 1, wherein the act of causing the traffic channel to be torn down comprises the further act of causing a release order to be transmitted.

6. The method of claim 1, wherein the act of causing the traffic channel to be torn down causes the connected data communication service to enter into a dormant state.

30 7. The method of claim 1, further comprising:

wherein the act of causing the traffic channel to be torn down causes the connected data communication service to enter into a dormant state; and

maintaining the data communication service in the dormant state during the voice call.

5

8. The method of claim 1, further comprising:

after completion of the voice call, resuming data communications of the data communication service.

10 9. The method of claim 1, wherein the data communication service involves an Internet Protocol (IP) connection.

10. The method of claim 1, further comprising:

maintaining an Internet Protocol (IP) connection for the data communication service
15 after causing the traffic channel to be torn down and the voice call to be established.

11. The method of claim 1, wherein the data communication service involves a Point-to-Point Protocol (PPP) connection.

20 12. The method of claim 1, further comprising:
maintaining a Point-to-Point Protocol (PPP) connection of the data communication service after causing the traffic channel to be torn down and the voice call to be established.

25 13. The method of claim 1, wherein the data communication service comprises e-mail message communication.

14. The method of claim 1, wherein the data communication service comprises Internet data communication.

30 15. A mobile communication device, comprising:
a user interface;

one or more processors coupled to the user interface;
a wireless transceiver coupled to the one or more processors;
the one or more processors being operative to receive a voice call request through the user interface;

5 the one or more processors being further operative to perform the following acts in response to the voice call request:

 cause a traffic channel of the connected data communication service to be torn down; and

 cause a voice call to be established with the mobile communication device
10 with use of the wireless transceiver.

16. The mobile communication device of claim 15, wherein the one or more processors are further operative to cause the traffic channel to be torn down by causing a release order to be transmitted through the wireless transceiver.

15

17. The mobile communication device of claim 15, wherein the one or more processors are further operative to cause the connected data communication service enter into a dormant state.

20 18. The mobile communication device of claim 15, wherein the one or more processors are further operative to cause the connected data communication service enter into a dormant state which is maintained during the voice call.

25 19. The mobile communication device of claim 15 wherein the one or more processors are further operative to resuming data communications of the data communication service after completion of the voice call.

20. The mobile communication device of claim 15, wherein the data communication service involves an Internet Protocol (IP) connection.

30

21. The mobile communication device of claim 15 wherein the one or more processors are further operative to maintain an Internet Protocol (IP) connection of the data communication service after causing the traffic channel to be torn down and the voice call to be established.

5

22. The mobile communication device of claim 15, wherein the data communication service involves a Point-to-Point Protocol (PPP) connection.

23. The mobile communication device of claim 15 wherein the one or more
10 processors are further operative to maintain a Point-to-Point Protocol (PPP) connection of the data communication service after causing the traffic channel to be torn down and the voice call to be established.

24. The mobile communication device of claim 15 wherein the data
15 communication service involves e-mail message communication.

25. The mobile communication device of claim 15 wherein the data communication service involves Internet data communication.

20 26. A computer program product, comprising:
a computer storage medium;
computer instructions stored on the computer storage medium;
the computer instructions being executable on a processor for:
receiving a voice call request during a connected data communication service
25 of a mobile communication device;
in response to receiving the voice call request:
causing a traffic channel of the connected data communication service
to be torn down; and
causing a voice call to be established with the mobile communication
30 device.

27. The computer program product of claim 26, wherein the computer instructions are executable in the mobile communication device.

28. The computer program product of claim 26, wherein the computer instructions
5 are executable in one or more servers of a wireless communication network.

29. The computer program product of claim 26, wherein the computer instructions are further executable for causing a release order to be transmitted for causing the traffic channel to be torn down.
10

30. The computer program product of claim 26, wherein the computer instructions are further executable for causing the connected data communication service to enter into a dormant state when causing the traffic channel to be torn down.

31. The computer program product of claim 26 wherein the computer instructions are further executable for resuming data communications of the data communication service after completion of the voice call.
15

32. The computer program product of claim 26, wherein the computer instructions
20 are further executable for maintaining an Internet Protocol (IP) connection of the data communication service after causing the traffic channel to be torn down and the voice call to be established.

33. The computer program product of claim 26, wherein the computer instructions
25 are further executable for maintaining a Point-to-Point Protocol (PPP) connection of the data communication service after causing the traffic channel to be torn down and the voice call to be established.